

**WHAT IS CLAIMED IS:**

1. A method of adjusting tempo of an audio recording to match audio events to video or other audio events in an audio-visual recording, the method comprising:

5 receiving a reference indicating a location in a recorded signal, the reference being indicative of a desired audio tempo change location in the recorded signal; and

providing a tempo for an audio recording to be at least partially included in the recorded signal, the tempo being provided to fit the audio recording to a section of the recorded signal marked by the reference.

10 2. The method of claim 1, wherein the reference is indicative of a time location in the recorded signal to coincide a musical event with a particular frame of video in the recorded signal.

15 3. The method of claim 1, wherein the reference is indicative of a location in the audio recording to be synchronized with a cursor time reference located in the recorded signal.

4. The method of claim 1, further comprising providing a user interface via a computing device, the user interface providing graphical representations of the recorded signal and of the audio recording to be at least partially included in the recorded signal.

20 5. The method of claim 4, wherein the graphical representations include an audio waveform, wherein the user interface provides for the selective manipulation of characteristics of the audio waveform.

25 6. The method of claim 5, wherein the selective manipulation provided by user interface includes providing for the increase in length of the audio waveform, thereby increasing the duration of the audio recording to be at least partially included in the recorded signal.

09832646-061501  
TESTED - 04/28/2009

7. The method of claim 1, wherein the step of providing a tempo for an audio recording to be at least partially included in the recorded signal comprises receiving a indication of a beginning and an end of the audio recording segment.

8. The method of claim 1, further comprising displaying video  
5 thumbnails of video images in the recorded signal on a user interface, the user interface having time indications labeling the video thumbnails according to timing of appearance of video images in the recorded signal.

9. The method of claim 8, further comprising displaying audio  
10 representations of the audio recording to be at least partially included in the recorded signal, the audio representations being labeled with the time indications.

10. In a computer program product, a system of determining the tempo of a portion of music such that one tempo phrase ends and another tempo phrase begins at a frame of video or portion of audio as desired by a user of the computer program product, the system comprising:

15 means for receiving a reference indicating a location in a recorded signal; and

means for providing a tempo for an audio recording segment to be included in the recorded signal, the tempo being provided to fit the audio recording segment to a section of the recorded signal marked by the reference.

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11. The system of claim 10, further comprising means for interfacing with a computing device, the interfacing means being configured to provide graphical representations of the recorded signal including video images and of the audio recording segment to be included in the recorded signal.

25 12. The system of claim 10, wherein the means of providing a tempo for an audio recording segment to be included in the recorded signal comprises means for receiving a indication of a beginning and an end of the audio recording segment.

13. The system of claim 10, further comprising means for displaying video thumbnails of video images in the recorded signal on a means for interfacing



21. A graphical user interface configured to display representations of audio signals and video signals and being further configured to provide for creation of an audio or an audio visual production using a plurality of audio or video recordings, the graphical user interface comprising:

- 5 a first graphical display area on which graphical representations of a first audio recording can be displayed;
- a second graphical display area on which graphical representations of a second audio or video recording can be displayed; and
- 10 a reference marker which is configured to be selectively located by a user, the reference marker being used in the tempo synchronization of at least a portion of the first audio recording and at least a second audio or video recording.

22. The graphical user interface of claim 21, wherein the reference marker is a location marker indicating a measure location in the first audio recording.

- 15 23. The graphical user interface of claim 22, wherein the tempo synchronization is performed using the reference marker in the first audio recording and a cursor position in the second audio or video recording.

24. The graphical user interface of claim 21, wherein the reference marker is a time marker indicating a time location in the second audio or video recording.
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25. The graphical user interface of claim 24, wherein the tempo synchronization is performed using the reference marker in the second audio or video recording and a cursor position in the first audio recording.

26. The graphical user interface of claim 24, wherein the tempo synchronization is performed using the reference marker in the second audio or video recording and a position in the first audio recording to which a user drags the reference marker.
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